In the specification:

Please replace paragraph [0046] with the following amended paragraph:

[0046] **Figure 4** illustrates a flow diagram of the process demote ~~expression 300~~ variable 400 performed by Variable Identifier and Demoter 230 according to one embodiment of the present invention. The process begins at block 401. Decision block 405 determines if Leftmost1(BackwardValue[a].zero | BackwardValue[a].one) <= s, then flow continues to processing block 410. If Leftmost1(BackwardValue[a].zero | BackwardValue[a].one) > s, then flow returns to start block 401. Processing block 410 replaces every expression of the form

(GET [t] a)

by the expression

(EXTEND [t] (GET [s] a)).

Flow continues to processing block 415, where every expression of the form:

(PUT a E)

by the expression

(PUT a (TRUNCATE [s] E)). Flow continues to decision block 420.

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